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PHOTOGRAPHIC INTERPRETATION REPORT



HF COMMUNICATIONS
FACILITIES AT YOSHKAR-OLA,
SHADRINSK, DOMBAROVSKIY,
AND TATISHCHEVO
ICBM COMPLEXES
USSR

Declass Review by NIMA / DoD

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JULY 1967
COPY 116
9 PAGES

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PHOTOGRAPHIC INTERPRETATION REPORT

HF COMMUNICATIONS FACILITIES AT YOSHKAR-OLA, SHADRINSK, DOMBAROVSKIY, AND TATISHCHEVO ICBM COMPLEXES, USSR

JULY 1967

NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER

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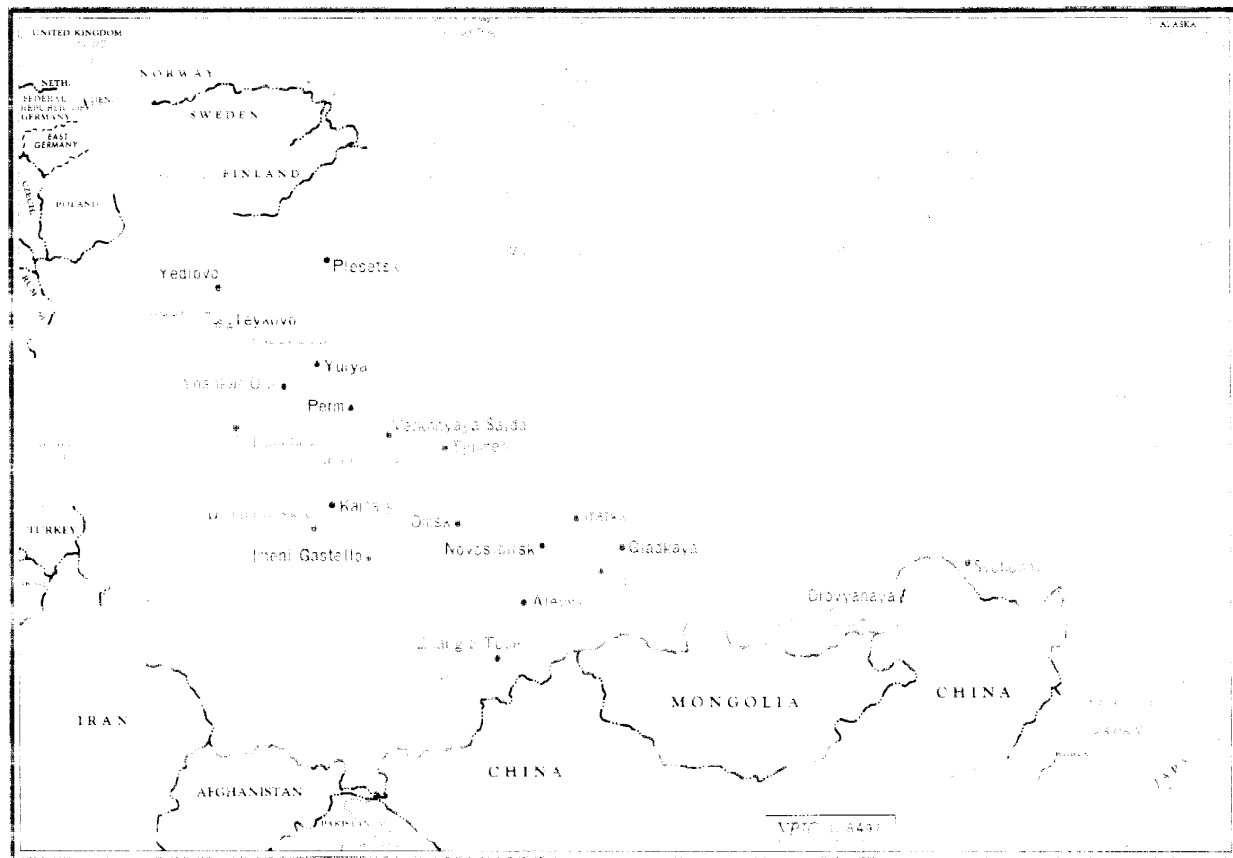


FIGURE 1. LOCATION OF DEPLOYED SOVIET ICBM COMPLEXES.

INTRODUCTION

This report is in response to NSA requirements NSA/SOC/R248-66, NSA/SOC/R11-67, NSA/SOC/R271-66, and NSA/SOC/R246-66, which requested a photographic interpretation of the high-frequency (HF) communications

facilities associated with the Yoshkar-Ola, Shadrinsk, Dombarovskiy, and Tatishchevo ICBM Complexes (Figure 1). Table 1 includes a summary of the type, dimensions, azimuthal orientation, and probable correspondents of each of the identified antennas in these 4 HF communications facilities.

Table 1. HF Communications Facilities at 4 ICBM Complexes

ICBM Complexes	Coordinates	Type	Antenna	Possible Correspondent	Negation Date
Yoshkar-Ola	56-34N 48-03E	1) hardened (subsurface)		Moskva	
Shadrinsk	56-10N 63-37E	1) hardened (subsurface)		Moskva	
		2) fishbone		Moskva	
		3) fishbone		Moskva	
		4) horizontal dipole		Undetermined	
		5) horizontal dipole		Undetermined	
Dombarovskiy	51-01N 59-50E	1) fishbone		Moskva	
Tatishchevo	51-28N 45-10E	2) fishbone		Moskva	
		1) hardened (subsurface)		Moskva	
		1) hardened (subsurface)		Moskva	

*Mensurations determined from clearings.

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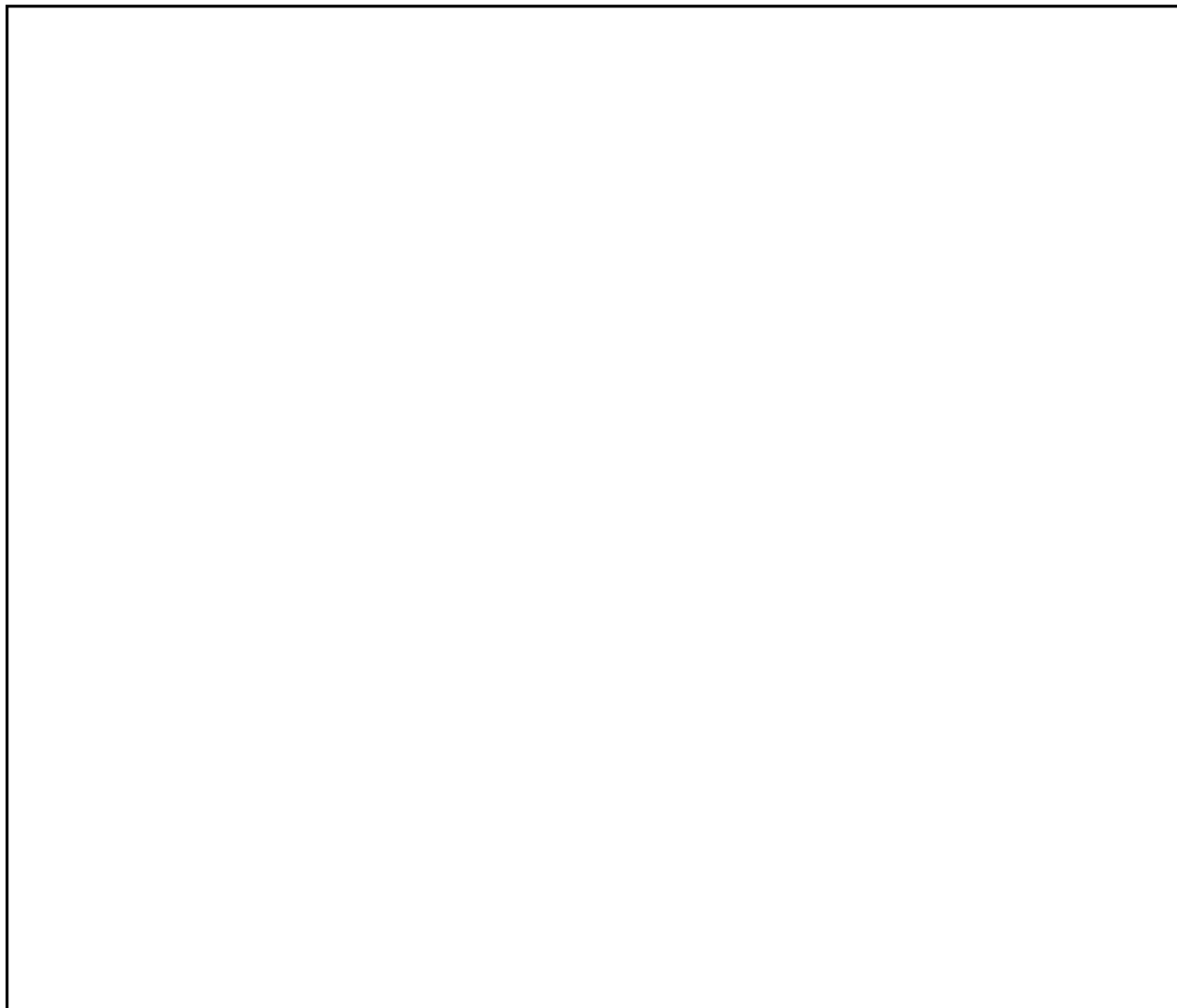
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HF COMMUNICATIONS FACILITY AT THE YOSHKAR-OLA ICBM COMPLEX



The Yoshkar-Ola HF communications facility (Figure 2), located 0.3 nm north of the Yoshkar-Ola complex support facility, consists of a hardened (subsurface) antenna and 2 arch-roofed buildings, one 150 by 40 feet and the other 95 by 25 feet. The hardened (subsurface) antenna was constructed after [redacted] and the 2 buildings were constructed between [redacted]

A previously reported 1/ HF communications facility is approximately 2 nm north-east of the complex support facility and 0.5 nm west of the hardened (subsurface) antenna described above. These 2 facilities are road connected, but any other association between these 2 facilities cannot be determined from available photography.

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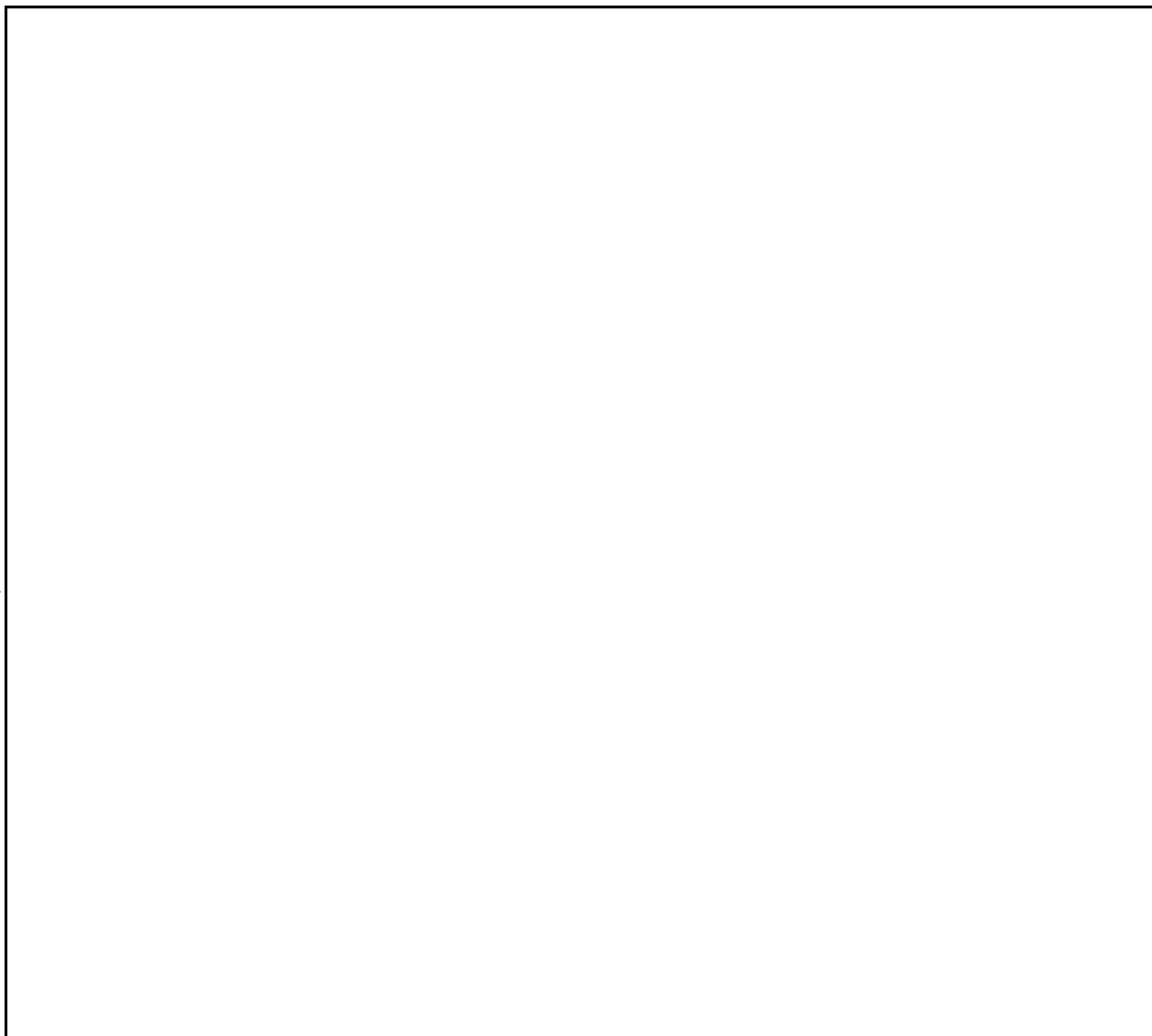
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HF COMMUNICATIONS FACILITY AT THE SHADRINSK ICBM COMPLEX

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The Shadrinsk HF communications facility (Figure 3) is 0.5 nm north of the Shadrinsk ICBM Complex Rail-to-Road Transfer Point. The facility consists of a hardened (subsurface) antenna, 2 fishbone antennas, and 2 probable horizontal dipole antennas. The measurements of the fishbone and dipole antennas included in

Table 1 were obtained from the clearings, as the antenna poles of the antennas could not be seen. The azimuths of the clearings were assumed to be the azimuths of the antennas. There are also in the facility an arch-roofed control building [redacted] and a support building [redacted]

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HF COMMUNICATIONS FACILITY AT THE DOMBAROVSKIY ICBM COMPLEX

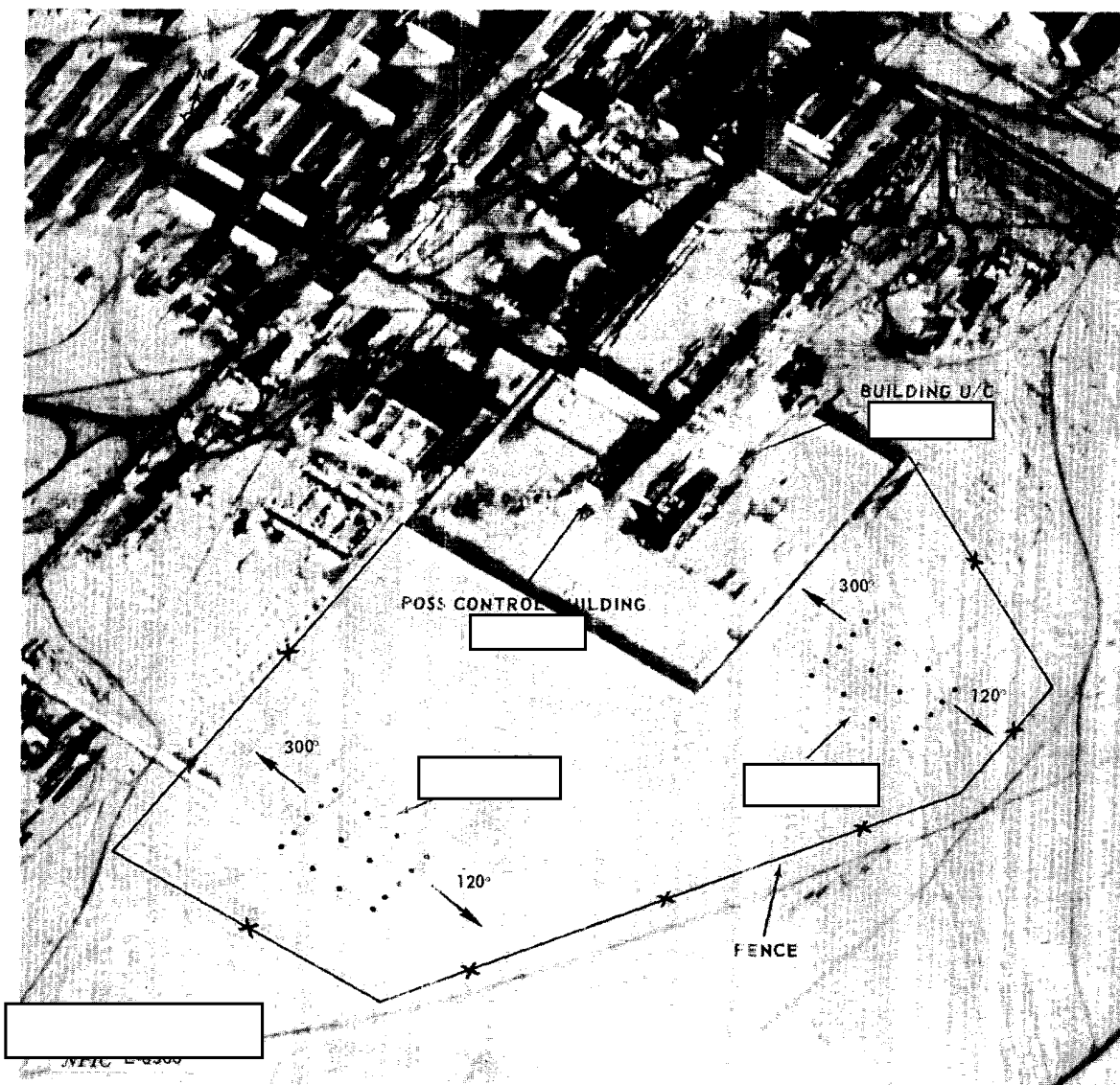


FIGURE 4. HF COMMUNICATIONS FACILITY AT DOMBAROVSKIY ICBM COMPLEX.

The Dombarovskiy HF communications facility (Figure 4), on the east side of the Dombarovskiy ICBM Complex housing and support area, consists of 2 fishbone antennas and 2 buildings, one

The smaller building is in an excavation and the building may still be under construction. The entire HF communications facility is fenced.

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HF COMMUNICATIONS FACILITY AT THE TATISHCHEVO ICBM LAUNCH SITE 26C

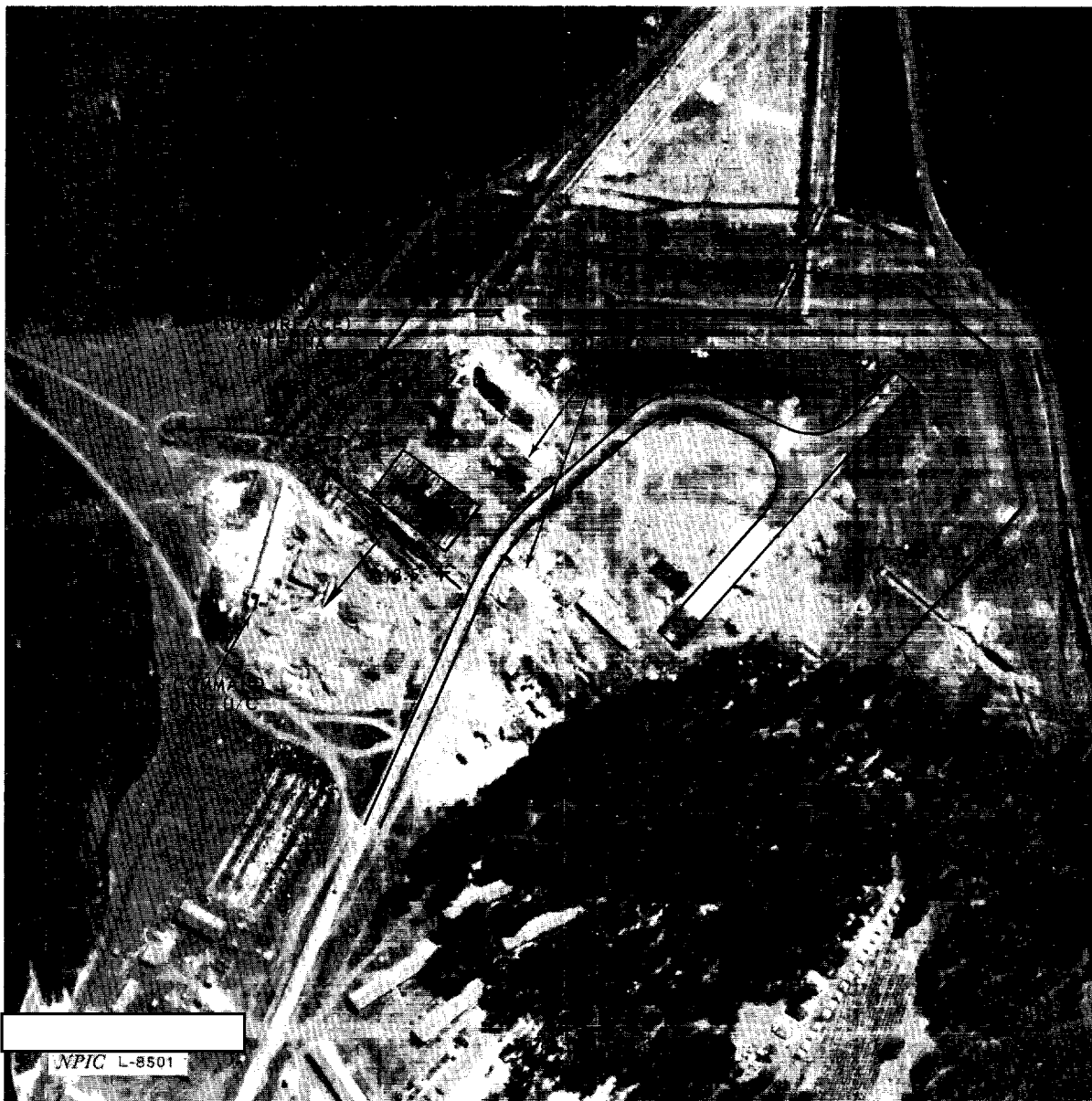


FIGURE 5. HF COMMUNICATIONS FACILITY AT TATISHCHEVO ICBM LAUNCH SITE 26C.

The Tatishchevo ICBM Launch Site 26C HF communications facility (Figure 5) is within the launch site security fence and consists of 1 hardened (subsurface) antenna

and 3 bunkered buildings. A possible command building is under construction north-northwest of the hardened (subsurface) antenna, just outside of the security fence.

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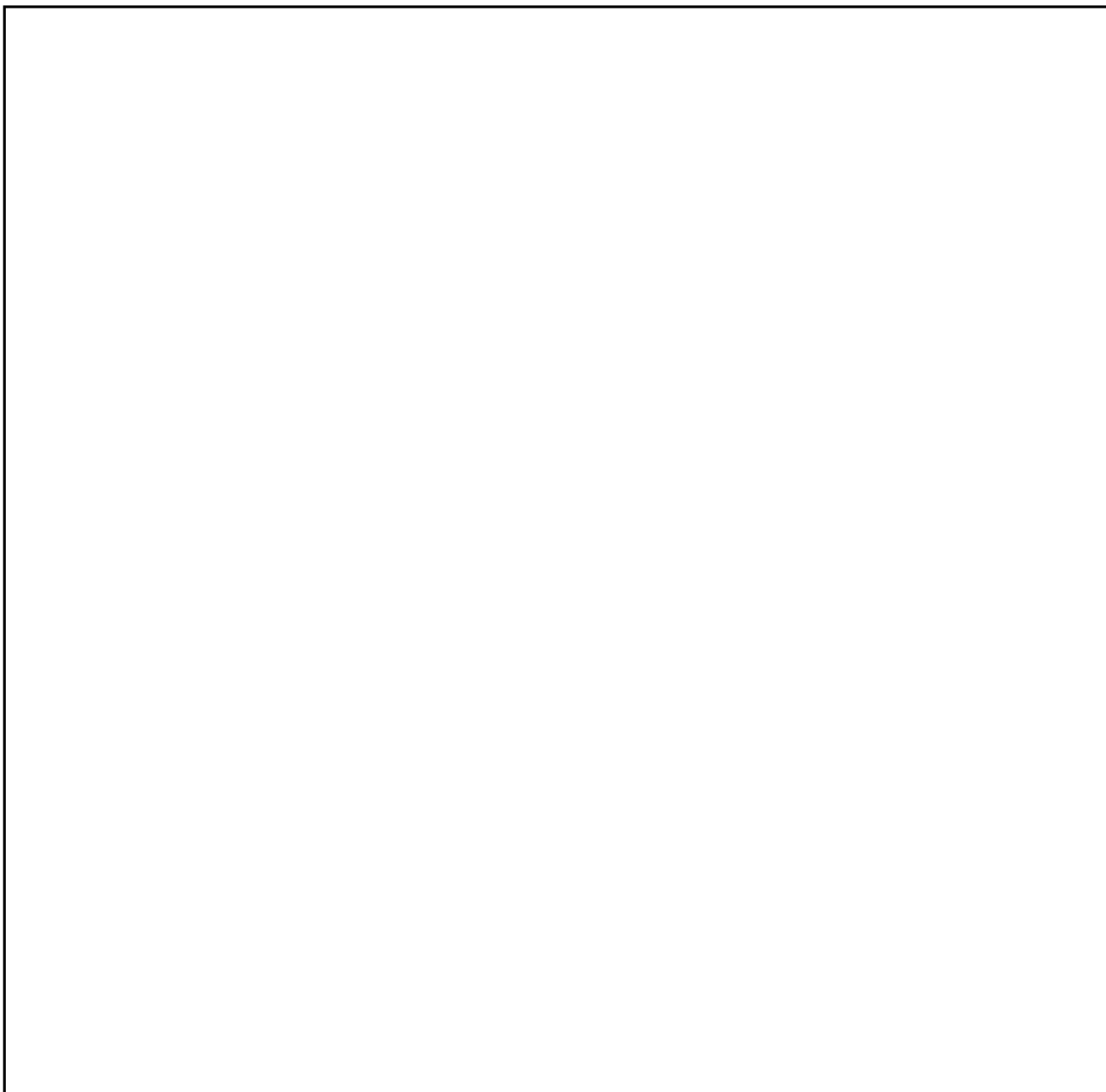
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HF COMMUNICATIONS FACILITY AT THE TATISHCHEVO ICBM LAUNCH SITE 12B



The Tatishchevo ICBM Launch Site 12B HF communications facility (Figure 6) is adjacent to the launch site earth-mounded control building and consists of a hardened (subsurface)

antenna [redacted] and an L-shaped interferometer. Between the sides of the interferometer is a large earth-mounded building which is a possible personnel bunker.

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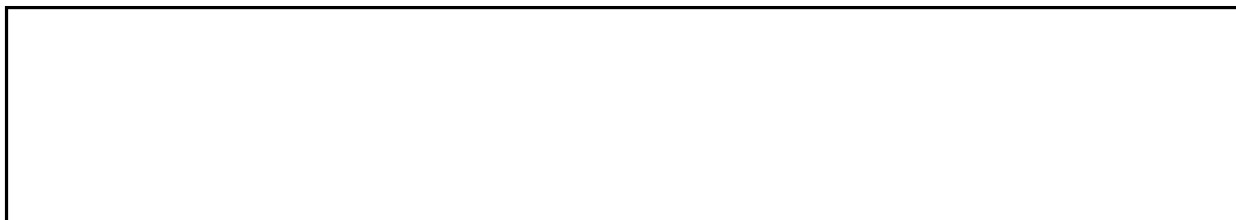
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REFERENCES

PHOTOGRAPHY



25X1D

MAPS OR CHARTS

ACIC series, scale 1:200,000

DOCUMENT

1. NPIC. [redacted] *HF Communications Facilities at or Near Soviet ICBM Complexes*, Apr 65 (TOP SECRET)

REQUIREMENTS

NSA/SOC/R248-66, NSA/SOC/R11-67 (partial answer), NSA/SOC/R271-66, and NSA/SOC/R246-66

NPIC PROJECTS

11185/66, 11264/67 (partial answer), 11229/67, and 11183/67

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